ThinkServer™ RD240 (1046) - TopSeller (March 2011)

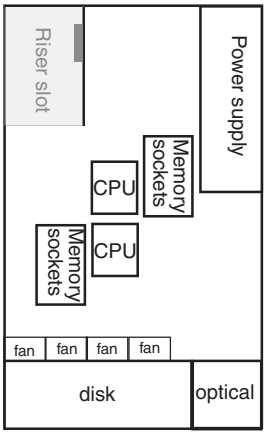
Name	Type-model	Slot x bay	Processor(s)	GHz	Cores	Memory DIMMs	Disk size	RAID Battery	Disk bays	Disk Controller	Disk type	RAID Int	System mgmt	Power supply(s)	Ethernet	Avail date
RD240	1046-17U	3 x 9	1 x E5603	1.60	4	1 x 4GB	3.5"		8 x Hot-swap	1068E	SATA/SAS[4]	0/1/1E	IPMI	1 x 750W	2 x Gb	Mar 11
RD240	1046-18U	3 x 9	1 x E5606	2.13	4	1 x 4GB	3.5"		8 x Hot-swap	1068E	SATA/SAS	0/1/1E	IPMI	1 x 750W	2 x Gb	Mar 11
RD240	1046-19U	3 x 9	1 x E5607	2.26	4	1 x 4GB	3.5"		8 x Hot-swap	8708EM2	SATA/SAS	Multi*	KVM	1 x 750W	2 x Gb	Mar 11
RD240	1046-1AU	3 x 9	1 x E5620	2.40	4	1 x 4GB	3.5"		8 x Hot-swap	8708EM2	SATA/SAS	Multi	KVM	1 x 750W	2 x Gb	Mar 11
RD240	1046-1BU	3 x 9	1 x E5645	2.40	6	1 x 4GB	3.5"		8 x Hot-swap	1068E	SATA/SAS	0/1/1E	KVM	1 x 750W	2 x Gb	Mar 11
RD240	1046-1CU	3 x 9	1 x E5645	2.40	6	1 x 8GB	3.5"	Battery	8 x Hot-swap	8708EM2	SATA/SAS	Multi	KVM	2 x 750W	2 x Gb	Mar 11
RD240	1046-1DU	3 x 9	2 x X5650	2.66	12	2 x 8GB	3.5"	Battery	8 x Hot-swap	8708EM2	SATA/SAS	Multi	KVM	2 x 750W	2 x Gb	Mar 11

- ***These models have a 3-year limited warranty***[1]
- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***

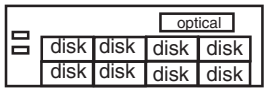
*Multi = RAID 0/1/5/6/10/50/60

Processor(s)	Up to two processors, one or two processors standard, **Intel® Xeon® Processor E5603** with **quad-core**, 4.8GT/s (giga-transfers/second) QPI (QuickPath Interconnect), Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 4MB cache or **Intel Xeon Processor E5606** with **quad-core**, 4.8GT/s QPI, Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 8MB cache or **Intel Xeon Processor E5607** with **quad-core**, 4.8GT/s QPI, Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 8MB cache or **Intel Xeon Processor E5620** with **quad-core**, 5.86GT/s QPI, Intel 64, Hyper-Threading Technology, Virtualization Technology, Turbo Boost Technology, 1066MHz DDR3 memory controller, and 12MB cache or **Intel Xeon Processor E5645** with **six-core**, 5.86GT/s QPI, Intel 64, Virtualization Technology, 1333MHz DDR3 memory controller, and 12MB cache or **Intel Xeon Processor X5650** with **six-core**, 6.4GT/s QPI, Intel 64, Hyper-Threading Technology, Virtualization Technology, Turbo Boost Technology, 1333MHz DDR3 memory controller, and 12MB cache
Implementation	Two LGA1366 sockets
Memory	**4GB**, **8GB**, or **16GB** std, 64GB max (32GB per processor), **RDIMM**, **PC3-10600 1333MHz DDR3****, **ECC**, **Memory Mirroring**, eight 240-pin DIMM sockets***, ** System automatically clocks down for processors with 1066MHz DDR3 memory controller *** Over four DIMMs requires dual processors
Graphics	Onboard Aspeed AST2050 graphics/management processor, one VGA DB-15 on rear, 8MB; *Maximum resolution:* 1600x1200@60Hz
Disk bays	Eight 3.5" hot-swap (HS) SATA/SAS disk bays
Disk controller	*Some:* LSI™ LSISAS1068E, PCI Express® bus, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID[8] 0, 1, 1E support *Some:* ThinkServer 8708EM2 SAS RAID Controller, PCI Express bus, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1, 5, 6, 10, 50, 60 support *Some:* Battery backed cache integrated
Optical	UltraSlim Enhanced DVD±RW
Diskette	None (use USB port)
Ethernet	Two Gigabit Ethernet ports, dual Intel 82574L controllers
Chipset	**Intel 5500 Chipset**, Intel I/O Hub (IOH) for PCI Express slots 1-3 (see right), links to LSISAS1068E, enterprise south bridge interface (ESI) to Intel I/O Controller Hub 10 RAID (ICH10R) for USB
Riser card	(See Right) One PCI Express 2.0 x8, two PCI Express 2.0 x8 (x4 electrical) slots standard
Front ports	Two USB 2.0
Rear ports	Four USB 2.0, external monitor (VGA DB-15), serial (9-pin), two ethernet (RJ-45)
Internal port	One USB 2.0 connector
Diagnostics	Diagnostic and system status LEDs on front panel
Systems mgmt	Onboard Aspeed AST2050 graphics/management processor *IPMI model(s):* IPMI 2.0-compliant baseboard management controller (BMC), storage over IP, remote platform flash, BIOS update, USB 2.0 virtual hub *KVM model(s):* IPMI functions ***PLUS*** KVM supported, 24bit high quality video compression
Prerequisites	Monitor, keyboard, mouse, SATA/SAS disk, rack, OS
Keyboard	None (use USB port)
Mouse	None (use USB port)
Power supply(s)	One or two 750 watts standard, two maximum, variable speed fan, auto-sensing, redundant with two power supplies
Cooling	Four fans standard, four maximum, variable speed

2U Rack top



Front



Rear

- 2U Mechanical
- Designed for EIA-310 standard 19-inch rack only
- Black color front; metal case
- 19"W x 27.6"D x 3.44"H
- 483mm W x 700mm D x 87.5mm H
- 66.6 lb (30kg) max configuration
- Toolless top cover removal
- Toolless disk and removal
- Toolless adapter retention

Bay	1	5.25", 0.5" high,	external,	std optical
Bay	2	3.5", 1" high,	external,	optional disk
Bay	3	3.5", 1" high,	external,	optional disk
Bay	4	3.5", 1" high,	external,	optional disk
Bay	5	3.5", 1" high,	external,	optional disk
Bay	6	3.5", 1" high,	external,	optional disk
Bay	7	3.5", 1" high,	external,	optional disk
Bay	8	3.5", 1" high,	external,	optional disk
Bay	9	3.5", 1" high,	external,	optional disk

Slot 1: full-length, full-height, PCI Express 2.0 x8
Slot 2: full-length, full-height, PCI Express 2.0 x8****
Slot 3: half-length, full-height, PCI Express 2.0 x8****
**** x4 electrical

Virtualization

Virtualization ready, VMWare Ready™ certified

Power-On Hotkey

- Setup Utility: DEL at startup
- Network Boot: F12 at startup
- 1068E RAID: Ctrl+C at startup
- 8708EM2 RAID: Ctrl+H at startup

Software Management Tools

- ThinkServer EasyStartup

Security

- Administrator password
- User password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- USB port disablement (all)

RoHS-compliant

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